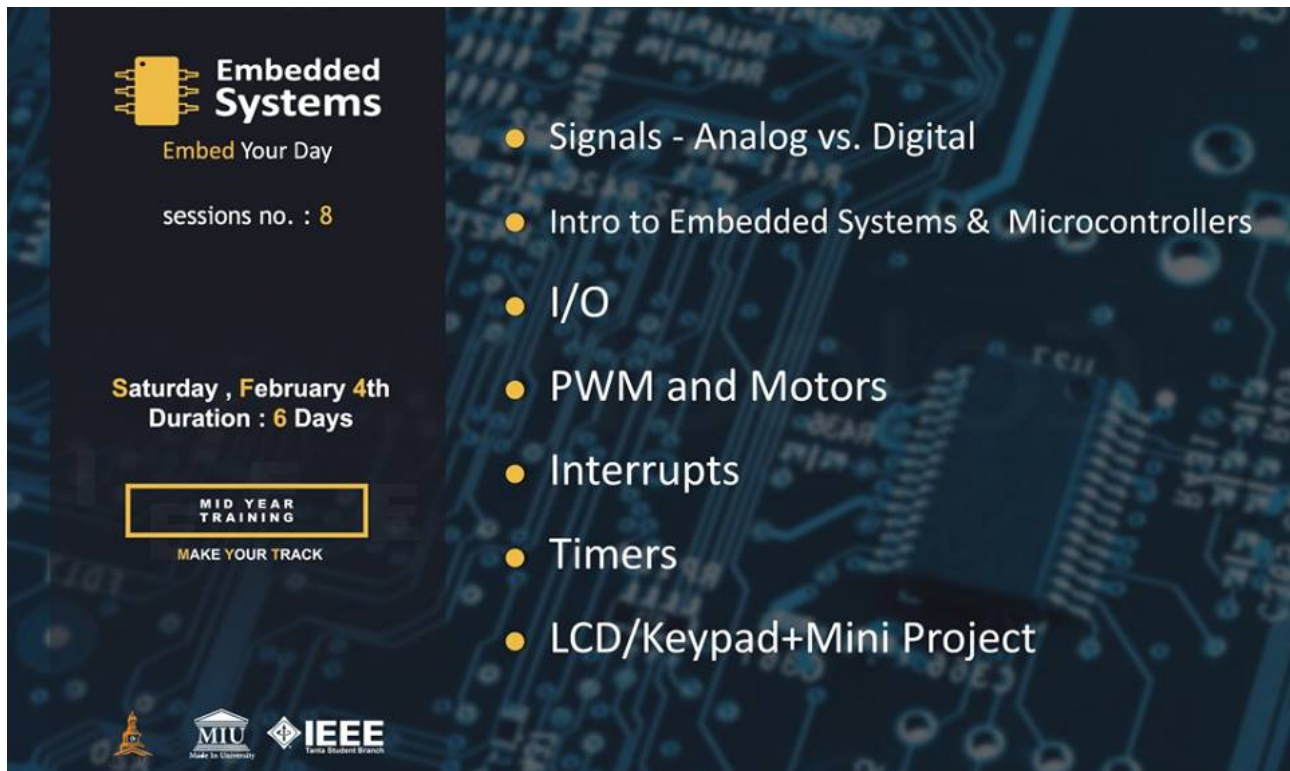


Some guidelines for Embedded Systems (Mid Year Training 2017 | IEEE Tanta SB):

The promised content:



**Embedded Systems**  
Embed Your Day  
sessions no. : 8  
Saturday, February 4th  
Duration : 6 Days  
MID YEAR TRAINING  
MAKE YOUR TRACK

- Signals - Analog vs. Digital
- Intro to Embedded Systems & Microcontrollers
- I/O
- PWM and Motors
- Interrupts
- Timers
- LCD/Keypad+Mini Project

MIU IEEE Tanta Student Branch

To be retrieved:

- Timers.
- PWM with timers.
- Pull-up resistors and how to activate them on ATmega328/P when input.

For further learning:

- Analog to Digital Converter (ADC).
- Analog Comparator
- Communication Protocols:
  - Serial Communication.
  - USART.
  - SPI.
  - I2C.
- Embedded C: <http://ow.ly/IMpj308Uk62>
- Real Time Operating System (RTOS): <http://ow.ly/QONU308Ukfi>
- Raspberry PI: <http://ow.ly/EI00308UkLC> , <http://ow.ly/Ozjc308UkNB>
- Linux: <http://ow.ly/EI00308UkLC> , <http://ow.ly/urs6308UkQX>
- Python: <http://ow.ly/FprE308UkUD>

Some Learning Sources:

- Shape the world “Introduction”:  
<http://ow.ly/r3PH308UkoN>

<http://ow.ly/Ixl5308UkpA>

- Introduction to Embedded Systems: <http://ow.ly/o1CY308UkAz>
- Basic Electronics (Walid Issa): <http://ow.ly/Ilom308UkDv>
- AVR Mazidi Book.